FILE	'CAPLUS'	ENTERED AT 15:43:29 ON 15 JUN 1999
L1	1840	S ((SITE (3N) SPECIFIC) (5N) RECOMBIN?)
L2	1840	S L1 (3N) SITE?
L3	1840	S L1 AND L2
L4	51816	S PRIMER?
L5	28	S L3 (5N) L4
Гę	13	S L5 AND PCR
L7	7	S L6 AND PY<1997
L8	15	S L1 (10N) PCR
L9	12	S L8 NOT L7
L10	23861	S TEMPLATE
L11	2	S L10 AND L9
L12	12	S L9 (5N) SITE?
L13	4	S L12 (5N) (MODIF? OR ENGINEER? OR INTRODUC? OR INSERT? OR
PLAC		
		E HARTLEY JAMES/AU
L14		S E3 OR E11
L15	37	DUP REM L14 (0 DUPLICATES REMOVED)
L16	37	S L15
L17	1	S L1 AND

US PAT NO: 5,912,326 [IMAGE AVAILABLE] L5: 1 of 29

DATE ISSUED: Jun. 15, 1999

TITLE: Cerebellum-derived growth factors

INVENTOR: Han Chang, Mountain View, CA

ASSIGNEE: President and Fellows of Harvard College, Cambridge, MA

(U.S. corp.)

Leland S. Stanford University, Palo Alto, CA (U.S. corp.)

APPL-NO: 08/525,864 DATE FILED: Sep. 8, 1995

ART-UNIT: 165

PRIM-EXMR: Marianne P. Allen LEGAL-REP: Giulio A. DeConti, Jr.

US PAT NO: 5,912,326 [IMAGE AVAILABLE] L5: 1 of 29

DETDESC:

DETD (28)

As used herein, a "transgenic animal" is any animal, preferably a non-human mammal, bird or an amphibian, in which one or more of the cells of the animal contain heterologous nucleic acid introduced by way of human intervention, such as by transgenic techniques well known in the art. The nucleic acid is introduced into the cell, directly or indirectly by introduction into a precursor of the cell, by way of deliberate genetic manipulation, such as by microinjection or by infection with a recombinant virus. The term genetic manipulation does not include classical cross-breeding, or in vitro fertilization, but rather is directed to the introduction of a recombinant DNA molecule. This molecule may be integrated within a chromosome, or it may be extrachromosomally replicating DNA. In the typical transgenic animals described herein, the transgene causes cells to express a recombinant form of the subject cdGF protein, e.g. either agonistic or antagonistic forms. However, transgenic animals in which the recombinant cdGF gene is silent are also contemplated, as for example, the FLP or CRE recombinase dependent constructs described below. The "non-human animals" of the invention include vertebrates such as rodents, non-human primates, sheep, dog, cow, chickens, amphibians, reptiles, etc. Preferred non-human animals are selected from the rodent family including rat and mouse, most preferably mouse, though transgenic amphibians, such as members of the Xenopus genus, and transgenic chickens can also provide important tools for understanding, for example, embryogenesis. The term "chimeric animal" is used herein to refer to animals in which the recombinant gene is found, or in which the recombinant is expressed in some but not all cells of the animal. The term "tissue-specific chimeric animal" indicates that the recombinant cdGF gene is present and/or expressed in some tissues but not others.

US PAT NO: 5,912,141 [IMAGE AVAILABLE] L5: 2 of 29

DATE ISSUED: Jun. 15, 1999

TITLE: Nucleic acids encoding tumor virus susceptibility genes

INVENTOR: Jurgen Brojatsch, Jamaica Pond, MA

John Naughton, Somerville, MA John A. T. Young, Auburndale, MA

ASSIGNEE: President & Fellows of Harvard College, Cambridge, MA

(U.S. corp.)

APPL-NO: 08/651,579 DATE FILED: May 22, 1996

166 ART-UNIT:

Lila F PRIM-EXMR:

Giulio A.Lahive & Cockfield, LLP DeConti, Jr. ASST-EXMR: LEGAL-REP:

5,912,141 [IMAGE AVAILABLE] US PAT NO:

L5: 2 of 29

DETDESC:

DETD(23)

As used herein, a "transgenic animal" is any animal, preferably a non-human mammal, bird or an amphibian, in which one or more of the cells of the animal contain heterologous nucleic acid introduced by way of human intervention, such as by transgenic techniques well known in the art. The nucleic acid is introduced into the cell, directly or indirectly by introduction into a precursor of the cell, by way of deliberate genetic manipulation, such as by rnicroinjection or by infection with a recombinant virus. The term genetic manipulation does not include classical cross-breeding, or in vitro fertilization, but rather is directed to the introduction of a recombinant DNA molecule. This molecule may be integrated within a chromosome, or it may be extrachromosomally replicating DNA. In an exemplary transgenic animal, the transgene causes cells to express a recombinant form of a tvb protein, e.g. either agonistic or antagonistic forms. However, transgenic animals in which the recombinant tvb gene is silent are also contemplated, as for example, the FLP or CRE recombinase dependent constructs described below. Moreover, "transgenic animal" also includes those recombinant animals in which gene disruption of one or more tvb genes is caused by human intervention, including both recombination and antisense

L5: 4 of 29 5,885,836 [IMAGE AVAILABLE] US PAT NO:

FLP-mediated gene modification in mammalian cells, and Mar. 23, 1999 DATE ISSUED:

compositions and cells useful therefor TITLE:

Geoffrey M. Wahl, San Diego, CA Stephen V. O'Gorman, San Diego, CA INVENTOR:

The Salk Institute For Biological Studies, La Jolla, CA

ASSIGNEE: (U.S. corp.)

08/825,784 APPL-NO: Apr. 8, 1997

DATE FILED: 163

ART-UNIT: Christopher S. F. Low

Stephen E.Gray Cary Ware & Freidenrich Reiter PRIM-EXMR: LEGAL-REP:

L5: 4 of 29 5,885,836 [IMAGE AVAILABLE]

Continuation of Ser. No. 484,324, Jun. 7, 1995, Pat. No. US PAT NO: 5,654,182, which is a continuation of Ser. No. 147,912, REL-US-DATA:

Nov. 3, 1993, which is a continuation of Ser. No.

666,252, Mar. 8, 1991, abandoned.

10/9/3 (Item 2 from file: 144)
DIALOG(R) File 144: Pascal
(c) 1999 INIST/CNRS. All rts. reserv.

09380601 PASCAL No.: 91-0170979
DNA mutagenesis and recombination
JONES D H; SAKAMOTO K; VORCE R L; HOWARD B H
JONES D H; SAKAMOTO K; VORCE R L; HOWARD B H
NIH, national cancer inst., lab. molecular biology, Bethesda MD 20892,
NIH, national cancer inst., lab. molecular biology, Bethesda MD 20892,
USA
Journal: Nature (London), 1990, 344 (6268) 793-794
ISSN: 0028-0836 Availability: INIST-142; 354000004065960360/NUM
No. of Refs.: 11 ref.
Document Type: P (Serial) ; A (Analytic)
Country of Publication: United Kingdom

US PAT NO: 5,710,248 [IMAGE AVAILABLE] L4: 13 of 16

DATE ISSUED: Jan. 20, 1998

TITLE: Peptide tag for immunodetection and immunopurification

INVENTOR: Charles F. Grose, Iowa City, IA

ASSIGNEE: University of Iowa Research Foundation, Iowa City, IA

(U.S. corp.)

APPL-NO: 08/681,935 DATE FILED: Jul. 29, 1996

ART-UNIT: 186

PRIM-EXMR: Frank C. Eisenschenk ASST-EXMR: Patrick J. Nolan

LEGAL-REP: Mueting, Raasch, Gebhardt & Schwappach, P.A.

US PAT NO: 5,710,248 [IMAGE AVAILABLE] L4: 13 of 16

### DRAWING DESC:

#### DRWD(2)

FIG. 1 diagrams a recombination site specific PCR insertional mutagenesis technique employed in this invention. In Panel A mutating primers (MP) MP15 and MP16 were used to insert 24 nucleotides (3B3.8) into the VZV gL gene immediately downstream from codon 21. The darker portions of MP15 and MP16 represent nucleotides that are complementary to the gL template (an overlap of 20 and 21 bp respectively). Panel B represents the resulting pTM1-VZVgL3B3.8 plasmid. Panel C represents PCR insertional mutagenesis where MP19 and MP20 insert 9 nucleotides (3B3.3) into the gL3B3.8 gene immediately downstream from the 3B3.8 insertion. The 3' ends of MP19 and MP20 overlap the gL3B3.8 template by 24 bp each. The 5' ends overlap the gL3B3.8 template by 9 bp and 8 bp respectively. The 3' end of MP20 and the 5' end of MP19 overlap a portion of the 3B3.8 insertion. Panel D and Panel E represent the final incorporation of the 3B3-epitope tag, designated gL3B3.11. An "\*" denotes the position within the ampicillin resistance gene where the non-mutating PCR primers (P3 and P4) are located. The primers are listed in Table 2.

### DETDESC:

## DETD (55)

The last eight amino acid residues of 6B1 (3B3.8; QRQYGDVF, see Table 1 above) were initially inserted into VZV protein gL by a recombination site specific PCR insertional mutagenesis method. (FIG. 1, panel A). The insert was placed downstream from codon 21 of the VZV gL gene, a site known to have little effect on gL function (unpublished, see FIG. 2 for codon 21 location). The sequence of gL is provided as SEQ ID NO:17. The N-terminus sequence before the first methionine (nucleotides 1-3 on SEQ ID NO:17) is ACG TCG TAG TGA AGG GAA AAC ACA AGC GTC ATG when the terminal ATG of this sequence is nucleotides 1-3 of SEQ ID NO:17. The stop codon for the gL protein is located at position 478-480. The primers for PCR mutagenesis were also designed to incorporate a new restriction site, BstNI, into the mutated plasmid for efficient screening of positive clones. The darker portions of MP15 and MP16 (FIG. 1) represent nucleotides complementary to the DNA template (wild-type gL), an overlap of 20 and 21 bp, respectively (Table 2). The asterisk in FIG. 1 denotes the position of the non-mutating PCR primers P3 and P4, which complement an overlapping portion of the ampicillin resistance gene within pTM1 (Table 2, see Duus, et al. supra).

DETDESC:

DETD(63)

In subsequent experiments the plasmid pTM1-VZV gL3B3.8 was digested with restriction enzymes Nco I and Spe I to give two separate linear species, which served as templates for the PCR mutagenesis, with mutating primers MP19 and MP20 and with two non-mutating primers P3 and P4 (Table 2). The 3B3.3 insertional mutagenesis used paired primers MP19/P4 and MP20/P3 which produced two linear products of 2.8 kb and 3.4 kb, respectively. The insert now contained a unique MboI restriction endonuclease recognition site. Recombination site specific PCR insertional mutagenesis of plasmid pTM1-gL3B3.8 (6.2 kb) was performed under the same conditions as the 3B3.8 insertion. Both PCR products were co-transformed into MAX Efficient DH5a.TM. Competent Cells (Life Technologies, Gaithersberg, Md.). Ten colonies were picked and screened by PCR amplification of gL with primers P1 and P2, as described by Duus, et al. (supra). Agarose gel electrophoresis demonstrated that 8 of 10 amplified PCR clones were positive for gL sequences. Five gL positive clones were randomly chosen and digested with Mbo I. The plasmid DNA of one clone was isolated and sequenced. This plasmid was designated pTM1-gL3B3.11 and contained the 11-codon 3B3-epitope (QRQYGDVFKGD (SEQ ID NO:1)) inserted into the gL gene (FIGS. 1D, E) as confirmed by

L15: 1 of 4 5,888,732 [IMAGE AVAILABLE]

Recombinational cloning using engineered recombination US PAT NO: Mar. 30, 1999 DATE ISSUED: TITLE:

James L. Hartley, Frederick, MD INVENTOR:

Michael A. Brasch, Gaithersburg, MD

Life Technologies, Inc., Rockville, MD (U.S. corp.) ASSIGNEE:

08/663,002 APPL-NO: Jun. 7, 1996

DATE FILED: 185

ART-UNIT:

Nancy Degen PRIM-EXMR:

William Sandals

Sterne, Kessler, Goldstein & Fox PLLC ASST-EXMR:

LEGAL-REP:

5,888,732 [IMAGE AVAILABLE] L15: 1 of 4 Continuation-in-part of Ser. No. 486,139, Jun. 7, 1995, US PAT NO: REL-US-DATA:

abandoned.

DETDESC:

It is important to note that as a result of the preferred embodiment DETD (99) being in vitro recombination reactions, non-biological molecules such as PCR products can be manipulated via the present recombinational cloning method. In one example, it is possible to clone linear molecules into circular vectors. There are a number of applications for the present invention. These uses include, but are not limited to, changing vectors, apposing promoters with genes, constructing genes for fusion proteins, changing copy number, changing replicons, cloning into phages, and cloning, e.g, PCR products (with an attB site at one end and a loxP site at the other end), genomic DNAs, and cDNAs.

L15: 2 of 4 5,834,202 [IMAGE AVAILABLE]

Methods for the isothermal amplification of nucleic acid S PAT NO: Nov. 10, 1998 DATE ISSUED:

TITLE:

Jeffrey I. Auerbach, Rockville, MD

Replicon, Inc., Rockville, MD (U.S. corp.) INVENTOR: ASSIGNEE:

08/906,491 APPL-NO: Aug. 5, 1997 DATE FILED:

164 Kenneth R. Horlick ART-UNIT: PRIM-EXMR:

Jeffrey I. Auerbach

L15: 2 of 4 LEGAL-REP: Continuation-in-part of Ser. No. 595,226, Feb. 1, 1996, US PAT NO:

Pat. No. 5,733,733, Mar. 31, 1998, which is a REL-US-DATA:

continuation-in-part of Ser. No. 533,852, Sep. 26, 1995,

Pat. No. 5,614,389, Mar. 25, 1997, which is a

continuation-in-part of Ser. No. 383,327, Feb. 3, 1995,

Pat. No. 5,591,609, Jan. 7, 1997, which is a continuation-in-part of Ser. No. 933,945, Aug. 24, 1992, abandoned, which is a continuation-in-part of Ser. No.

924,643, Aug. 4, 1992, abandoned.

# DETDESC:

The PCR amplification thus yields linear double-stranded molecules DETD (240) having LOX sites on each terminus. The molecule is circularized

Institut de Genetique et Microbiologie, URA1354 du CNRS, Universite Paris-Sud, Orsay, France.

Yeast (ENGLAND) Oct %%1996%%, 12 (13) p1351-7, ISSN 0749-503X Mallet L; Jacquet M Journal Code: YEA Languages: ENGLISH Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9705
Subfile: INDEX MEDICUS Subnie: INDEX MEDICUS
We have developed a strategy named Intergenic Flip Flop which, for each
gene, allows us to produce in one experiment both a disrupting cassette and
a plasmid for gap repair. The same method can also be used to insert a
reporter gene downstream from the promoter. This approach extends the
reporter gene downstream from the promoter. This approach extends the
polymerase chain reaction (PCR)-based strategy proposed by Maftahi et al,
polymerase chain reaction (PCR)-based strategy proposed by Maftahi et al,
polymerase chain reaction of PCR amplification of the two flanking
sets of oligonucleotides. Each PCR product is flanked by two short defined
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selective marker for yeast such as G418 resistance, it provides a
selective marker for yeast such as G418 resistance, it provides a
selective marker for yeast such as G418 resistanc We have developed a strategy named Intergenic Flip Flop which, for each %%%site%%% %%%introduced%%% by the Maximum of the West of the State of Reporter
Genetic Vectors—Genetics—GE; Genome, Fungal; Nucleic Acid Hybridization
Genetic Vectors—Genetics—GE;
Open Reading Frames; Promoter Regions (Genetics)—Genetics—GE;
Restriction Mapping; Transformation, Genetic
CAS Registry No.: 0 (DNA Primers); 0 (Genetic Vectors) 13/9/10 (Item 10 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 1999 Dialog Corporation. All rts. reserv. 08902073 97119275
Rapid detection of the Fc gamma RIIA-H/R 131 ligand-binding polymorphism using an allele-specific restriction enzyme digestion (ASRED).
Jiang XM, Arepally G; Poncz M; McKenzie SE
Division of Hematology, Children's Hospital of Philadelphia, PA, USA.
J Immunol Methods (NETHERLANDS) Nov 29 %%%1996%%%, 199 (1) p55-9.
ISSN 0022-1759 Journal Code: IFE
Contract/Grant No.: RO1 HL 54749, HL, NHLBI; R0I DK 16691, DK, NIDDK
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9703
Subfile: INDEX MEDICUS Subfile: INDEX MEDICUS
A polymorphism of the gene for Fc gamma RIIA, arginine (R) or histidine
(H) at position 131, alters the ability of the receptor to bind certain IgG
(H) at position 131, alters the ability of the receptor to bind certain IgG
subclasses. Identification of the Fc gamma RIIA-H/R 131 genotype has
subclasses. Identification of the Fc gamma RIIA-H/R 131 genotype has
assumed increasing importance in disorders of host defense,
assumed increasing importance and systemic autoimmune disorders. We report
immunohematologic diseases and systemic autoimmune disorders. a new method for determination of this genotype in which an allele-specific %%\*forstriction%\*% enzyme %%%site%%% is %%%introduced%%% into RIIA %%%PCR%%% product from genomic DNA, and polymorphism assignment is determined by %%%restriction%%% enzyme digestion followed by agarose assignment is gel electrophoresis. This method is more rapid, more reliable and less expensive than currently available methods.

expensive than currently available methods.

Tags: Human; Support, Non-U.S. Gov't, Support, U.S. Gov't, P.H.S.

Tags: Human; Support, Non-U.S. Gov't, Support, U.S. Gov't, P.H.S.

PNA Restriction Enzymes

-Metabolism-ME: "Histidine-Metabolism-ME: "Polymorphism (Genetics)

-Immunology-IM; "Receptors, IgG-Genetics-GE; "Receptors, IgG

-Immunology-IM; DNA Restriction

-Metabolism-ME: Alleles, Arginine-Immunology-IM; DNA Restriction

-Receptors, IgG

-Receptors, IgG

-Analysis-AN --Analysis--AN

CAS Registry No.: 0 (Ligands); 0 (Receptors, IgG); 7004-12-8 (Arginine); 7006-35-1 (Histidine)

Enzyme No.: EC 3.1.21 (DNA Restriction Enzymes)

13/9/11 (Item 11 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 1999 Dialog Corporation. All rts. reserv.

Rapid detection of point mutations of the Neisseria gonorrhoeae gyrA gene 08901630 97015957

associated with decreased susceptibilities to quinolones.

Deguchi T; Yasuda M; Nakano M; Ozeki S; Ezaki T; Maeda S; Saito I; Kawada Pepartment of Urology, Gifu University School of Medicine, Japan.
J Clin Microbiol (UNITED STATES) Sep %%%1996%%%, 34 (9) p2255-8,
ISSN 0095-1137 Journal Code: HSH
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9703
Subfile: INDEX MEDICUS
Mutations in the gyrA gene resulting in amino acid changes at Ser-91 and Mutations in the gyrA gene resulting in amino acid changes at Ser-91 and Asp-95 are significantly associated with decreased susceptibilities to quinolones in Neisseria gonorrhoeae. To detect these mutations, we developed a result and a significant production of the region of quinolones in Neisseria gonorrhoeae. To detect these mutations, we developed a rapid and simple assay based on amplification of the region of the gyrA gene containing the mutation sites by PCR and digestion of the PCR period of the restriction enzyme. A naturally occurring Hinfl restriction site was present in the region containing the Ser-91 codon, and an artificial Hinfl restriction site was created in the region containing the Asp-95 codon by the method of %%%primer%%%-specified %%%restriction%%%%%%%modification%%%%%% The mutations ceneration %%%resurcuorr%%% %%%site%%% %%%modification%%% . The mutations generating alterations at Ser-95 were detected as restriction fragment length polymorphisms of the PCR products digested with Hinfl. Fifty-five clinical polymorphisms of the PCR products digested with Hinfl. Fifty-five clinical strains of N. gonorrhoeae were examined for mutations in the gyrA gene by strains of N. gonorrhoeae were examined for mutations in the gyrA gene by strains in which the mutations had been confirmed by DNA sequencing. Our strains in which the mutations had been confirmed by DNA sequencing. Our strains in which the mutations had been confirmed by DNA sequencing. Our strains in which the mutations had been confirmed by DNA sequencing. Our strains in which the mutations as second with decreased severely genetic alterations associated with decreased susceptibilities to quinolones in N. gonorrhoeae and could facilitate epidemiological studies on clinical isolates of N. gonorrhoeae with decreased susceptibilities to quinolones. epidemiological studies on clinical isolates of N. gonorrhoeae with decreased susceptibilities to quinolones.

Descriptors: "Drug Resistance, Microbial--Genetics--GE; "DNA Topoisomerase (ATP-Hydrolysing)--Genetics--GE; "Genes, Bacterial; "Neisseria gonorrhoeae--Genetics--GE; "Quinolones--Pharmacology--PD; Base Sequence; Molecular Sequence Data; Neisseria gonorrhoeae--Metabolism--ME; DNA Point Mutation: Sequence Analysis DNA gonorrhoeae--Metabolism--ME;
Point Mutation; Sequence Analysis, DNA
CAS Registry No.: 0 (Quinolones)
Enzyme No.: EC 5.99.1.- (gyrA protein); EC 5.99.1.3 (DNA Topoisomerase (ATP-Hydrolysing)) 13/9/12 (Item 12 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 1999 Dialog Corporation, All rts. reserv. หารอง point mutations are rare events in premalignant forms of Barrett's 08878060 97018061 Trautmann B; Wittekind C; Strobel D; Meixner H; Keymling J; Gossner L; oesophagus. EII C; Hahn EG
Department of Medicine I, University of Erlangen-Nuremberg, Germany.
Eur J Gastroenterol Hepatol (ENGLAND) Aug %%%1996%%%, 8 (8) p799-804, ISSN 0954-691X Journal Code: B9X ISSN 0954-691X Journal Code. B9X
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9703
Subfile: INDEX MEDICUS
OBJECTIVE: In Barrett's adenocarcinomas, in contrast to squamous
OBJECTIVE: In Barrett's adenocarcinomas, in contrast to be a frequent
oesophageal carcinomas, K-ras point mutations are thought to be a frequent
event. The frequency of K-ras point mutations in premalignant forms of
event. The frequency of K-ras point mutations in premalignant forms of
surrett's oesophagus (metaplasia, dysplasia) leading to adenocarcinoma with
Barrett's oesophagus, we investigated
mutations in premalignant forms of Barrett's oesophagus, we investigated
mutations in premalignant forms of Barrett's oesophagus, we investigated
epithelium for point mutations in the K-ras gene/codons 12, 13. DESIGN: A
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epithelium for point mutations in the signal as biopsies with material as a biopsies biopsies biopsies with material as a biopsies biopsies with material as a biopsies biopsies biopsies with material as a biopsies biopsie total of 412 biopsies from patients with Barrett's oesophagus were histologically classified into biopsies with metaplasia (n = 252), sysplasia (n = 105) and adenocarcinoma (n = 11), as well as biopsies distant from disease (normal, n = 37 and hyperplastic squamous epithelium, n = 7). METHODS: DNA from biopsy specimens was amplified by %%%polymerase%%% %%%chain%%% %%%reaction%%% %%%reaction%%% (%%%PCR%%%) with a %%%modified%%% %%%primer%%% for generating a %%%restriction%%% %%%site%%%% %%site%%% in the case of wild type in codon 12. Wild-type or point mutations in the K-ras gene/codons 12, 13 were detected by restriction fragment length K-ras gene/codons 12, 13 were detected by restriction fragment length analysis of the PCR products. RESULTS: Point mutations in K-ras/codon 12 were found in 9 biopsies (n = 1 in metaplasia, n = 4 in dysplasias, n observed.

CONCLUSION: Mutations in K-ras/codon 12 were rarely found in premalignant CONCLUSION: Mutations in K-ras/codon 12 were rarely found in premalignant CONCLUSION: Whereas the screening for K-ras point CONCLUSION: Mutations in K-ras/codon 12 were rarely tound in premails forms of Barrett's oesophagus. Whereas the screening for K-ras point mutations in metaplastic sites of Barrett's epithelium seems not to be of mutations in metaplastic sites of Barrett's epithelium seems not to be of mutations in metaplastic sites of Barrett's epithelium seems not to be of practical value, the screening for mutations in dysplastic lesions might be helpful to estimate the individual risk for progression of Barrett's epithelium to adenocarcinoma. A further evaluation in larger numbers of

rags: Human; Support, Non-U.S. Gov't

Descriptors: \*Barrett Esophagus-Genetics-GE; \*Genes, ras-Genetics-GE; Adenocarcinoma Precancerous Conditions-Genetics-GE; Adenocarcinoma -Precancerous Genetics-GE; Adenocarcinoma-Pathology-PA; Barrett Esophagus -Pathology-PA; Biopsy, Disease Progression; Esophageal Neoplasms -Pathology-PA; Esophagus-Pathology -PA; Metaplasia; Polymerase Chain Reaction 13/9/14 (Item 14 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 1999 Dialog Corporation. All rts. reserv.

Detection of the plasma cholinesterase K variant by %%%PCR%%% using 08839822 96422842

an amplification-%%%created%%% %%%restriction%%% %%%site%%%.

Jensen FS: Nielsen LR: Schwartz M

Pengangant of Apparthesia National University Happital Concentrations of Apparthesia National University Happital Concentrations of Apparthesia National University Happital Concentrations

Jensen רס, אופוספוז בת, סטואימרע אוו Department of Anaesthesia, National University Hospital, Copenhagen,

Hum Hered (SWITZERLAND) Jan-Feb %%%1996%%%, 46 (1) p26-31,

Hum Hered (SWITZERLANU) Jan-Feb %%%1996%%%, 46 (1) pz6-31, ISSN 0001-5652 Journal Codé: GE9 Languages: ENGLISH Document type: JOURNAL ARTICLE JOURNAL ANNOUNCEMENT: 9702 JUB 100 JUB 1 is a reliable and rapid non-radioactive diagnostic assay for detecting the

Tags: Female, Human; Male
Descriptors: "Choinesterases--Genetics--GE; Alleles, Base Sequence; DNA
Primers; Genotype, Molecular Sequence Data; Pedigree; Polymerase Chain
Pacaction; Restriction Mapping; Variation (Genetics)
Reaction; Restriction Mapping; Variation (Genetics)
CAS Registry No.: 0 (DNA Primers)
Enzyme No.: EC 3.1.1.8 (Cholinesterases)

13/9/26 (Item 26 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 1999 Dialog Corporation. All rts. reserv.

Molecular diagnosis of exocrine pancreatic cancer using a percutaneous 08742888 96292642

technique.
Evans DB; Frazier ML; Charnsangavej C; Katz RL; Larry L; Abbruzzese JL
Department of Surgical Oncology, University of Texas M.D. Anderson Cancer
Center, Houston 77030, USA.

And Surg Oncol (LINITED STATES) May %%%1996%%% 3 (3) n241-6
And Surg Oncol (LINITED STATES)

Jenuer, mouston 17,030, USA. Ann Surg Oncol (UNITED STATES) May %%%1996%%%, 3 (3) p241-6,

ISSN
1068-9265 Journal Code: B9R
1068-9265 Journal Code: B9R
Contract/Grant No.: CA 16672, CA, NCI
Languages: ENGLISH
Document type: CLINICAL TRIAL; JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9611
SUBMIR\* INDEX MEDICUS

JOURNAL ANNOUNCEMENT: 9611
Subfile: INDEX MEDICUS
BACKGROUND: The K-ras oncogene is activated by point mutations at codon
12 in most patients with exocrine pancreatic cancer. Mutant-enriched
12 in most patients with exocrine pancreatic cancer mutated K-ras. This technique was applied to patients undergoing polymerase chain reaction (PCR) amplification can enhance the detection of mutated K-ras. This technique was applied to patients undergoing percutaneous fine-needle aspiration (FNA) biopsy of suspect pancreatic lesions. METHODS: Twenty-five patients underwent percutaneous FNA of the pancreas for cytologic and molecular analysis. After preparing cytologic smears, the 22-gauge needle and syringe used for FNA were rinsed in SRPMI-1640. The specimen was centrifuged, and DNA was extracted from the supernatant and subjected to mutant-enriched %%%PCR%%% using appropriate

propriate sw%primers%%% that %%%introduce%%% a BstNI ismatched %%%primers%%% that %%%introduce%%%% a BstNI appropriate

%%%restriction%%%

mutant,
K-ras. After digestion with BstNI, the DNA was reamplified. To increase
sasay sensitivity, the final five PCR cycles were completed incorporating 5
assay sensitivity, the final five PCR to be said to be sensitivity. The DNA was then redigested and subjected to microCi of (alpha-32P)dCTP. The DNA was then redigested and subjected to be said to gel electrophoresis and autoradiography. RESULTS: The median amount of DNA

DNA

retrieved per specimen was 3.33 micrograms. Mutant K-ras was detected as a pretrieved per specimen was 3.33 micrograms. Mutant K-ras was detected as a 114-bp fragment, band of 143 bps, residual wild-type DNA was seen as a 114-bp fragment. Twenty-one of 25 specimens demonstrated mutated K-ras DNA. Two patients with nondiagnostic cytology results had mutated K-ras DNA; adenocarcinoma with nondiagnostic cytology results had mutated K-ras DNA; adenocarcinoma concentration of pancreatic origin was confirmed in both cases after pancreatic cancer through CONCLUSION: The molecular diagnosis of pancreatic cancer through confirmed in K-ras can be readily performed on specimens identifications of mutations in K-ras can be readily performed on specimens of obtained by percutaneous FNA. As aggressive multimodality management of obtained by percutaneous FNA. As aggressive multimodality management of which is disease becomes more common, pretreatment analysis of molecular this disease becomes more common, pretreatment analysis of molecular this disease becomes

determinants may have greater clinical significance.

Tags: Human; Support, Non; U.S. Govt; Support, U.S. Govt, P.H.S.
Descriptors: "Pancreatic Neoplasms—Diagnosis—DI; Adenocarcinoma—Pathology—Diagnosis—DI; Adenocarcinoma—Genetics—GE; Adenocarcinoma—Patholog—PA; Base Sequence, Biopsy, Needle—Methods—MT; Codon; DNA Mutational—PA; Base Sequence, Biopsy, Needle—Methods—MT; Codon; DNA Mutational—PA; Base Sequence, Biopsy, Needle—Methods—MT; Neoplasms—Genetics—GE; Analysis, Feasibility Studies; Genes, ras—Genetics—GE; Molecular Sequence
Analysis, Feasibility Studies; Genes, ras—Genetics—GE; Molecular Sequence
Neoplasms—Pathology—PA; Point Mutation; Polymerase Chain
Pancreatic Neoplasms—Pathology—PA; Point Mutation; Polymerase Chain
Reaction—Methods—MT; Predictive Value of Tests
CAS Registry No.: 0 (Codon)

13/9/30 (Item 30 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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UBBB4189 95186951
%%%Creating%%% seamless junctions independent of
%%%Creating%%%
seamless junctions independent of 08684189 96186951 ~~~restriction%%% %%%sites%%% in %%%PCR%%% cloning.

Padgett KA: Sorge JA
Stratagene, La Jolla, CA 92037, USA.
Gene (NETHERLANDS) Feb 2 %%%1996%%%, 168 (1) p31-5, ISSN 0378-1119

Journal Code: FOP Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9608

JOURNAL ANNOUNCEMENT: 9608

Subfile: INDEX MEDICUS

A method is described for the efficient cloning of any given DNA sequence into any desired location without the limitation of naturally occurring into any desired location without the limitation of naturally occurring into any desired location without the limitation of naturally occurring into a provided in the second of the provided into the capacity of the type-IIS restriction endonuclease (PCR) combined with the capacity of the type-IIS restriction endonuclease (ENase) Eam1104I to cut outside its recognition sequence, Primers that contain the Eam1104I recognition site (S-CTCTTC) are used to amplify the contain the Eam1104I recognition sequence, all internal site-specific methylation in the recognition sequence, all internal sequence from the promining the PCR Eam1104I sites present in the DNA can be protected by performing the PCR expression in the presence of 5-methylateoxycytosine (m5dCTP). The amplification in the presence of 5-methylateoxycytosine (m5dCTP). The amplification in the present of the provided pro

ovent.

Descriptors: \*Cloning, Molecular-Methods-MT; \*Deoxyribonucleases, Type Descriptors: "Cloning, Molecular--Methods--MT; "Deoxyribonucleases, Type II Site-Specific--Metabolism--ME; "Polymerase Chain Reaction; Base Sequence Deoxycytidine--Metabolism--ME; "Polymerase Chain Reaction; Base Sequence Deoxycytidine--Pharmacology Deoxycytidine--Pharmacology Polymers-Chemistry--CH; Electrophoresis, Polyacrytamide Gel; -PD: DNA Primers--Chemistry--CH; Electrophoresis, Polyacrytamide Gel; Genetic Vectors--Genetics--GE; Methylation; Molecular Sequence Data Case Registry No: 0 (DNA Primers); 0 (Genetic Vectors), 838-07-3 (CAS Registry No: 0 (DNA Primers); 0 (Genetic Vectors), 838-07-3 (S-methyldeoxycytidine); 951-77-9 (Deoxycytidine) (5-methyldeoxycytidine); 951-77-9 (Deoxycytidine) I Site-Specific) Enzyme No: EC 3.1.21.4 (Deoxyribonucleases, Type II Site-Specific)

13/9/33 (Item 33 from file: 155) DIALOG(R)File 155:MEDLINE(R) טואבט (ה) ויין 193. אובטבואבנאי (c) format only 1999 Dialog Corporation. All rts. reserv.

Design of cassette baculovirus vectors for the production of therapeutic antibodies in insect cells. 08639162 98040678

Poul MA; Cerutii M; Chaabihi H; Devauchelle G; Kaczorek M; Lefranc MP Poul MA; Cerutti M; Chaabini H; Devauchelle G; Kaczorek M; Leiranc MP Laboratoire d'ImmunoGenetique Moleculaire, Institut de Genetique Moleculaire, UMR 9942, CNRS, Montpellier, France. Immunotechnology (NETHERLANDS) Dec %%%1995%%%, 1 (3-4)

p189-96, ISSN
1380-2933 Journal Code: CR0
Languages: ENGLISH
Document type: JOURNAL ARTICLE
JOURNAL ANNOUNCEMENT: 9803
Subfile: INDEX MEDICUS
BACKGROUND: Various systems have been described for the expression of Becombinant monoclonal antibodies for therapeutical applications. Insect BACKGROUND: Various systems have been described for the expression recombinant monocional antibodies for their apeutical applications, Insect cells offer great advantages with respect to post-translational modifications, stability, yields and applications. OBJECTIVES: To construct plasmid cassette transfer vectors in order to express chimeric, humanized or human antibodies in insect cells using baculovirus expression system. or numan antipodies in insect cells using paculovilus expression system. STUDY DESIGN: Two transfer vectors, pBHuC kappa and pBHuC gamma 1,

designed. They contain a viral promoter (polyhedrin or p10 promoters, designed. They contain a viral promoter (polynegrin or p1u promoters, respectively), a signal peptide sequence and a human immunoglobulin light recain C kappa gene or heavy chain C gamma 1 sequence, respectively. have been %%%introduced%%% have been %%%introduced%%%%

to allow %%%kinsertion%%% of rearranged variable genes, after amplification by %%%polymerase%%% %%%chain%%% %%%reaction%%% . RESULTS:

הפינוטווטאינו baculoviruses expressing complete immunoglobulins have been generated by a

double-recombination event between baculovirus DNA and the loaded cassette transfer vectors. CONCLUSION: Our genetic cassette approach makes this system a very flexible and convenient one for the rapid production of therapeutic monocional antibodies with heavy and light chains of any human therapeutic monocional antibodies with heavy and light chains of any human therapeutic very load regions selected by the antibody phage display isotype. Specific variable regions selected by the antibody phage display isotype. technology can be easily transferred in these vectors to obtain a complete technology can be easily transiened in these vectors of a station of the control -Genetics-GE; Jurkat Cells; Molecular Sequence Data, Recombinating Positions, Physics (Chimeric Proteins); CAS Registry No.: 0 (Antibodies, Monoclonal); 0 (Chimeric Proteins); 0 (Genetic Vectors); 0 (Immunoglobulin Variable Region); 0 (Immunoglobulins, Light-Chain); 0 (Immunogl (Recombinant Proteins) 13/9/36 (Item 36 from file: 155) DIALOG(R)File 155:MEDLINE(R) (c) format only 1999 Dialog Corporation. All rts. reserv. 08596866 96423318
Detection of germline mutations in the von Hippel-Lindau disease gene by the primer specified restriction map modification method.

Kishida T; Chen F; Lerman MI; Zbar B
Laboratory of Immunobiology, National Cancer Institute-Frederick Cancer Laboratory of Immunobiology, National Cancer Institute-Frederick Cancer Laboratory and Development Center, MD 21702-1201, USA.

Research and Development Center, MD 21702-1201, USA.

J Med Genet (ENGLAND) Dec %%%1995%%%, 32 (12) p938-41, ISSN 0022-2593 0022-2593 Journal Code: J1F Journal Code: J1F Languages: ENGLISH Document type: JOURNAL ARTICLE JOURNAL ANNOUNCEMENT: 9702 Subfile: INDEX MEDICUS Subfile: INDEX MEDICUS

Von Hippel-Lindau disease (VHL) is an inherited disorder characterised by predisposition to develop tumours in the eyes, central nervous system, a predisposition to develop tumours in the eyes, central nervous system, and adrenal glands. Recently the VHL gene was cloned and shown to kidneys, and adrenal glands. Recently the VHL gene was cloned and shown to mutated in 75% of US and Canadian VHL families. To develop simple, rapid be mutated in 75% of US and Canadian VHL families. To develop simple, rapid be methods for the detection of mutations found in large numbers of affected methods for the detection of mutations found in large numbers of affected people, we designed based on the %%primer%% specified people, we designed based on the %%primer%%% specified people. Which was a subject to the second of the s жживаническая же www. method. These tests have proved %%%site%%% %%%modification%%% method. These useful in identifying asymptomatic mutated VHL gene carriers who have the nt 505 T to C mutation or the nt 686 T to C mutation. Together with an MspI digestion test which can detect a mutation hot spot in codon 238, polymerase chain reaction/restriction endonuclease based tests can now detect VHL mutations in more than 50% of VHL type 2 families.

Taus: Female: Human: Male in more than 50% of VHL type 2 tamilies.

Tags: Female; Human; Male
Descriptors: "Germ-Line Mutation-Genetics-GE; "Hippel-Lindau Disease
Descriptors: "Germ-Line Mutation-Genetics-GE; Molecular Sequence Data;
Genetics-GE; Base Sequence; DNA Primers; Molecular Sequence Data; Pedigree; Restriction Mapping
CAS Registry No.: 0 (DNA Primers) 13/9/45 (Item 45 from file: 155) DIALOG(R)File 155:MEDLINE(R) (c) format only 1999 Dialog Corporation. All rts. reserv. 08395203 95380961
Tumour diagnosis by PCR-based detection of tumour cells.
Tumour diagnosis by PCR-based detection of tumour cells.

Note in the property of the control of the property of th 08395203 95380961 0085-591X Journal Code: UCR
Languages: ENGLISH
Document type: JOURNAL ARTICLE; REVIEW; REVIEW, TUTORIAL
JOURNAL ANNOUNCEMENT: 9512 ISSN 0085-591X Journal Code: UCR Subfile: INDEX MEDICUS
Tomour cells shed from solid primary tumours can be detected by the polymerase chain reaction (PCR) based on the selective amplification of mutated tumour genes or of genes expressed in a tissue specific manner. When tumour specific alterations are amplified, few tumour cells can be when tumour specific alterations are amplified, few tumour cells can be detected in excess of normal cells derived from the same tissue. Thus, detected in excess of normal cells derived from the same tissue. Thus, malignant cells can be detected specifically in pancreatic juice, stool, malignant cells can be detected specifically in pancreatic juice, stool, malignant cells can be detected specifically in pancreatic juice, stool, which will be applied to the adaptation of the mutant enriched which provides the provided with the second control of the second control of

amplification of mutant K-ras genes in stool samples from patients with

amplification of mutant K-ras genes in stool samples from patients with colorectal carcinomas. In reconstitution experiments, down to 10 colorectal carcinoma cells could be detected in 100 mg of stool. For the diagnosis of micrometastatic disease, a sensitive and specific technique was established micrometastatic disease, a sensitive and specific technique was established on the reverse transcription of mRNA specific for the based on the reverse transcription of warphification of the CDNA carcinoembryonic antigen followed by the amplification of the CDNA (RT-PCR). Attempts to establish a specific RT-PCR for cytokeratin-18 failed (RT-PCR). Attempts to establish a specific RT-PCR pseudogene. (28 Refs.)

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Tags: Human
Descriptors: *Neoplasms-Diagnosis-Dt; *Polymerase Chain Reaction
Descriptors: Tumor Markers, Biological-Diagnostic Use-DU; Neoplasms
--Methods-MT; *Tumor Markers, Biological
--Genetics-GE; RNA, Messenger--Analysis--AN; Tumor Markers, Biological
   CAS Registry No.: 0 (RNA, Messenger); 0 (Tumor Markers, Biological)
 --Genetics--GE
           ? log y
         $2.40 12 Type(s) in Format 9
$2.10 42 Type(s) in Format 95 (KWIC)
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$8.78 Estimated cost File155
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$2.77 Estimated cost File55
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$7.10 2 Type(s) in Format 9
$0.00 1 Type(s) in Format 95 (KWIC)
              $10.65 4 Types
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FTSNET 0.450 Hrs.
           $86.80 Estimated cost this search
$86.91 Estimated total session cost
$86.91 Estimated total session cost
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